

AMENDMENTS TO THE CLAIMS:

Please cancel claims 2 and 7 without prejudice or disclaimer of the subject matter thereof; amend claims 1, 3, 4, 6, and 8-10; and add new claim 11, as listed in the following listing of the claims, which replaces all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A swing cushion system of a work machine, comprising:

a directional fluid flow device having a directional control member;

a control device coupled to said directional fluid flow device; and

wherein said control device outputs a sinusoid signal to said directional fluid flow device ~~fluid flow control apparatus~~ to shift said directional control member to dissipate energy in the fluid.

2. (Canceled)

3. (Currently Amended) The swing cushion system set forth in claim 1, ~~[[2,]]~~ wherein said sinusoid signal has at least one variable pre-determined parameter.

4. (Currently Amended) The swing cushion system set forth in claim 3, wherein said at least one variable pre-determined parameter is one of [[a]]:

a time parameter;

a magnitude parameter; and

a frequency parameter.

5. (Original) The swing cushion system set forth in claim 1, wherein said control device is a programmable electronic control module.

6. (Currently Amended) The swing cushion system set forth in claim 1,[[5,]] wherein:

said signal has at least one variable pre-determined parameter;

said at least one variable pre-determined parameter is at least one of a time parameter, a magnitude parameter, and a frequency parameter; and

said programmable electronic control module includes an algorithm for calculating said at least one variable pre-determined parameter.

7. (Canceled)

8. (Currently Amended) The method set forth in claim 9,[[7,]] including the step of sending said signal to said directional flow device.

9. (Currently Amended) A method for dissipating energy in a swing cushion system of a work machine, the system including a directional flow device having a directional control member, and a control device coupled to said directional flow device, comprising the steps of:

producing a stop swing command;

generating a signal indicative of variable pre-determined parameters;

dissipating energy in said swing cushion system using said signal; and ~~The method set forth in claim 8, including the step of~~

oscillating said directional control member to dissipate energy in said swing cushion system in response to said signal.

10. (Currently Amended) A method for dissipating energy in a swing cushion system of a work machine, the system including a directional flow device having a directional control member, and a control device coupled to said directional flow device, comprising the steps of:

producing a stop swing command;

generating a signal indicative of variable pre-determined parameters; and

dissipating energy in said swing cushion system using said signal, The method set forth in claim 7, wherein generating said signal includes the steps of:

providing a variable pre-determined parameter indicative of the position of the directional control member;

providing a variable pre-determined parameter indicative of a change rate
of said swing command; and
producing a sinusoid signal indicative of said change rate.

11. (New) The method set forth in claim 10, including the step of sending said
signal to said directional flow device.